

Description of Additional Supplementary Files

File Name: Supplementary Movie 1

Description: The in-situ compression on $(\text{CoNi})^{50}(\text{TiZrHf})^{50}$ at room temperature.

File Name: Supplementary Movie 2

Description: The in-situ compression on $(\text{CoNi})^{50}(\text{TiZrHf})^{50}$ at 573 K.

File Name: Supplementary Movie 3

Description: The 3D visualization of a $[100]\{110\}$ dislocation gliding at 300 K, 700 K and 900 K with the initial character of screw.

File Name: Supplementary Movie 4

Description: The 3D visualization of a $[100]\{110\}$ dislocation gliding at 300 K, 700 K and 900 K. with the initial character of edge.